

Applicants: Paul Simmons et al.

Serial No.: 10/813,747

Filed: March 29, 2004

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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-78. (Cancelled)

79. (Currently Amended) A method of generating a bone tissue in a subject comprising administering to the subject a population of cells enriched for STRO-1^{bright} cells, or culture expanded colony-forming-unit-fibroblasts (CFU-Fs) derived therefrom, wherein such STRO-1^{bright} cells are mesenchymal precursor cells ~~which comprise mesenchymal precursor cells~~ capable of giving rise ~~(CFU-F)~~ to CFU-Fs, so as to generate ~~the~~ bone tissue in the subject.

80. (Cancelled).

81. (Cancelled).

82. (Cancelled).

83. (Cancelled).

84. (Previously Presented) The method of claim 79, wherein the mesenchymal precursor cells carry at least one additional marker selected from the group of surface markers consisting of THY-1, VCAM-1, STRO-2, and CD146.

85. (Previously Presented) The method of claim 84, wherein the mesenchymal precursor cells carry the markers STRO-1 and VCAM-1.

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86-89. (Cancelled)

90. (Previously Presented) The method of claim 79, wherein the STRO-1^{bright} cells are negative for at least one marker selected from the group consisting of CBFA-1, collagen type II, PPAR γ 2, and glycophorin A.